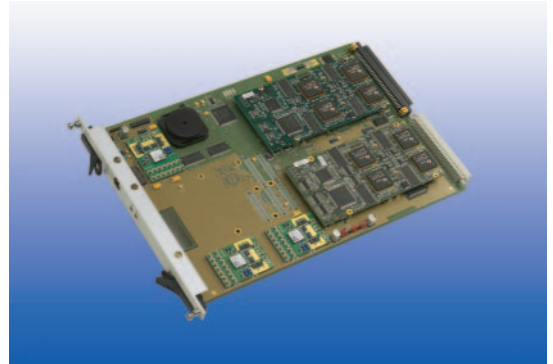


Dialogic® Digital Signal Processing Series 2 Plus Card

The Dialogic® Digital Signal Processing Series 2 Plus Card provides fully integrated, high-performance media processing for the Dialogic® Converged Services Platforms (CSP). With the DSP Series 2 Plus Card added, the CSP Platforms integrate not only signaling along with TDM and IP interfaces, but also powerful media processing. Also, because it offers a comprehensive set of features for intensive media processing and media management, the DSP Series 2 Plus Card allows the CSP Platforms to be used for intensive media processing applications.



Adding a DSP Series 2 Plus Card to a CSP Platform creates an integrated communications and media platform for feature-rich, media intensive services. The CSP Platforms can then be deployed as intelligent peripherals, as comprehensive media server solutions, or as Interactive Voice Response (IVR) units interoperating with Automatic Speech Recognition (ASR), Text To Speech (TTS), and bulk storage systems. With the DSP Series 2 Plus Card, CSP Platforms can also be used in a wide range of other cost-effective solutions from simple, low-density, DTMF functions to high-density, processor-intensive real-time file recording, playback, and conferencing.

Features	Benefits
<p>Supports a rich media processing feature set, including playback and record files, tone generation and detection, conferencing, echo cancellation, answering machine detection, and T.30 fax</p>	<p>Allows the development of innovative voice-based applications, and complex media processing functions</p>
<p>Integrates media processing capability together with signaling and IP protocols; only requires one set of APIs on one platform</p>	<p>Simplifies development and can speed time-to-market; allows streamlined network operations</p>
<p>Flexible, multi-function design enables each DSP Series 2 Plus Card to be dynamically assigned to perform different functions; includes a pooling scheme that dynamically allocates media resources as needed; monitors and balances DSP resources to prevent overloading</p>	<p>Optimizes the use of media resources, and acts to ensure that the maximum possible media resources are available at any given time</p>
<p>Four to eight DSPs are supported on one DSP Series 2 Plus Card; one to five DSP Series 2 Plus Cards are supported on one platform; up to seven platforms are supported in a ring architecture</p>	<p>Highly scalable and flexible media platform; customers pay only for the resources required immediately, and can scale up seamlessly as the needs of an installation grow</p>
<p>Allows for several types of redundancy: hot swap, resource pooling, distributed function types, redundant Network File Storage (NFS) servers with internal Ethernet switching, and RAID configurations</p>	<p>Highly reliable platform; designed to eliminate single points of failure</p>

Media Features

- Records multiple file formats, including ADPCM and WAV; files can be played back by file offset and length and can be queued before play
- Supports two-way call recording that uses no conference ports, as well as configurable beep tones and silence parameters
- Up to three hours of files can be stored on each DSP Series 2 Card, which can be used for temporary recordings and for files that are played back frequently
- NFS can be added for long-term storage of permanent fax records and for large voice mail message or recorded conference files
- Provides statistics for cache and function usage
- Includes a DSP chip assigned to play a universal tone, which can be any tone type with the same encoding format; up to 512 tone receivers per DSP
- Provides high-density echo-cancellation (G.168) with tail lengths up to 128 milliseconds
- Supports a direct Real-time Transport Protocol (RTP) interface for speech servers
- Includes positive tone detection, which sends only voice signals (no silence) to the speech server, freeing up expensive speech server ports
- Cancels file transmission when speech is detected
- Has a powerful, highly sensitive algorithm that provides recognition of answering machines, required for some applications

Technical Specifications

DSP Resource Specifications

Tone reception: 384 concurrent channels per DSP chip

Tone generation: 512 concurrent channels per DSP chip

Conferences: 128 conferences per DSP chip (maximum of 256 conferees per DSP chip)

File Recording/Playback: 128 concurrent channels per DSP chip

Echo Cancellation: 64 concurrent channels per DSP chip

Fax T.30: 12 Fax sessions per DSP chip

Positive Voice Detection: 384 concurrent channels per DSP chip

Power Requirements

Supply Voltage: Vcc 5.0 V

Supply Current: @ 5V, 5.5 A (typical)

DSP Series 2 Plus with one Module: Maximum current 5.6 A @ 5 V, maximum power 28.0 W

DSP Series 2 Plus with two Modules: Maximum current 7.8 A @ 5 V, maximum power 39.0 W

Physical Specifications

Height: 9.3 in. (236.2 mm)

Depth: 12.5 in. (317.5 mm)

Width: 0.775 in. (19.7 mm)

Environmental Requirements

Temperature Storage: -40°C to 70°C (-40°F to 158°F)

Temperature, Operation: 0°C to 50°C (32°F to 122°F)

Temperature Shock, Storage: -40°C to 70°C to -40°C (-40°F to 158°F to -40°F) at 5°C/min.

Temperature Shock, Operation: 0°C to 50°C (32°F to 122°F) at 10 °C/min.

Humidity, Operating: 5% to 85%

Altitude: Up to 4000 meters (13.123 ft.)

Approvals and Compliance

For information about RoHS compliance and global approvals, contact your Dialogic sales representative.

Reliability/Warranty

MTBF information available upon request.

Warranty information at <http://www.dialogic.com/warranties>

To learn more, visit our site on the World Wide Web at <http://www.dialogic.com>

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